

Phytochemistry and Herbal Medicine_2024

Coordinator : Lie-Fen Shyur (徐麗芬), Distinguished Research Fellow
Agricultural Biotechnology Research Center, Academia Sinica
Place (地點) : Agricultural Technology Building Room A236, Academia Sinica
(中央研究院農科大樓 2 樓, Room A236)
Time (時間) : Monday, 10:00 ~ 12:00noon (星期一 10:00 ~ 12:00)
Credit (學分) : 2 credits (Elective course)

| Date | Topics | Lecturers |
|-------|--|------------------|
| 9/09 | 1. Current R&D of herbal medicine and botanical drug | Lie-Fen Shyur |
| 9/16 | 2. Classification and functions of bioactive natural products | Shih-Chang Chien |
| 9/23 | 3. Mass spectrometry-based molecular networking in herbal medicine R&D | Chun-Han Su |
| 9/30 | 4. Tissue culture technologies in medicinal plant application | Choun-Sea Lin |
| 10/07 | 5. Metabolic engineering and transgenic approach in medicinal plant research | Hieng-Ming Ting |
| 10/14 | 6. Herbal medicine and gut microbiota re-education for disease prevention | Tai-Na Wu |
| 10/21 | 7. Animal models for pharmacological study of phytomedicines | Yu-Chuan Liang |
| 10/28 | 8. Integrative omics approaches in phytomedicine research | Lie-Fen Shyur |
| 11/04 | 9. Mid-term Exam. (oral presentation) | Lie-Fen Shyur |
| 11/11 | 10. Conference participation (All students) | Lie-Fen Shyur |
| 11/18 | 11. Immunomodulatory phytoagents | Hui-Ming Chen |
| 11/25 | 12. Phytocompounds and human immune diseases | Wen-Chin Yang |
| 12/02 | 13. MS-based proteomics in natural products and drug R&D | Jeng-Yuan Shiau |
| 12/09 | 14. Phytonutrients in sports medicine and exercise science research | Chi-Chang Huang |
| 12/16 | 15. Immunoadjuvant therapy for human disease | Yu-Ling Lin |
| 12/23 | 16. Systems biology and holistic approaches to study herbal medicine against cancer metastasis | Pei-Wen Hsiao |
| 12/30 | 17. Final Exam. | Lie-Fen Shyur |